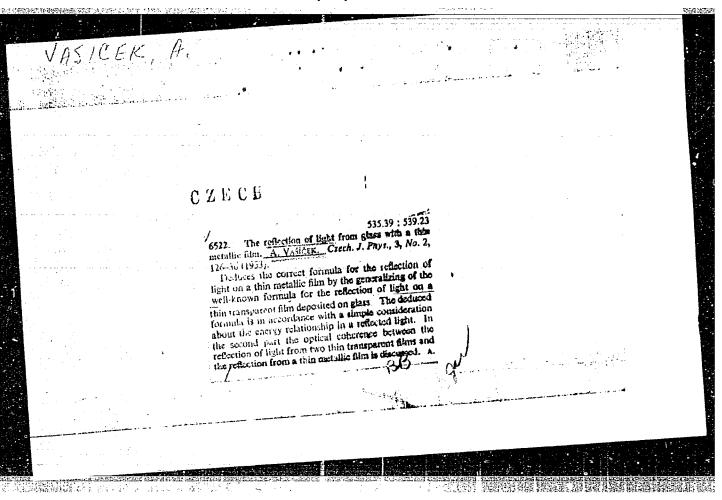
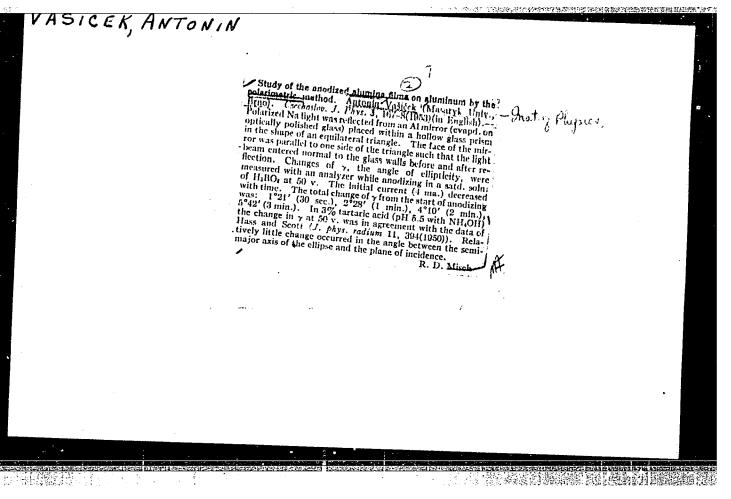
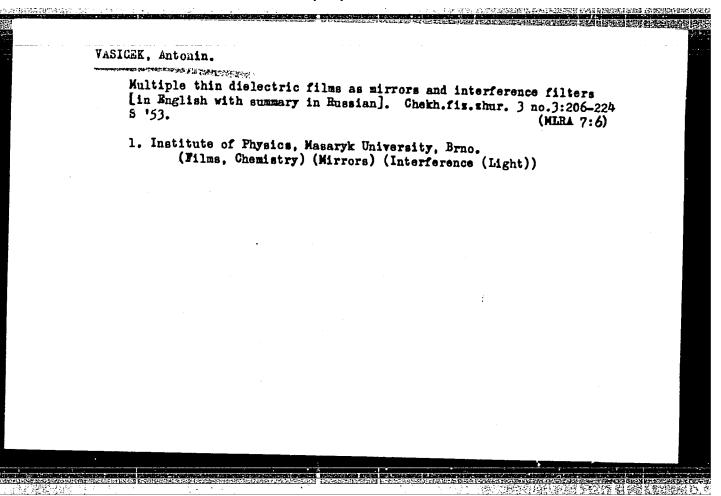


" Multiple T	hin Layers Us	ed for Mirror	rs and Inter	ference Fil	ters," p. 1	113.	
(Casopis Pro	Pestovani Fy	siky, Vol.3,	No.2, Apr.	1953, Praha	·• <b>)</b>		
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SO: Mont	hly List of B	East European	Vol.2	No.9	masa a		1953, <b>U</b> ncl.
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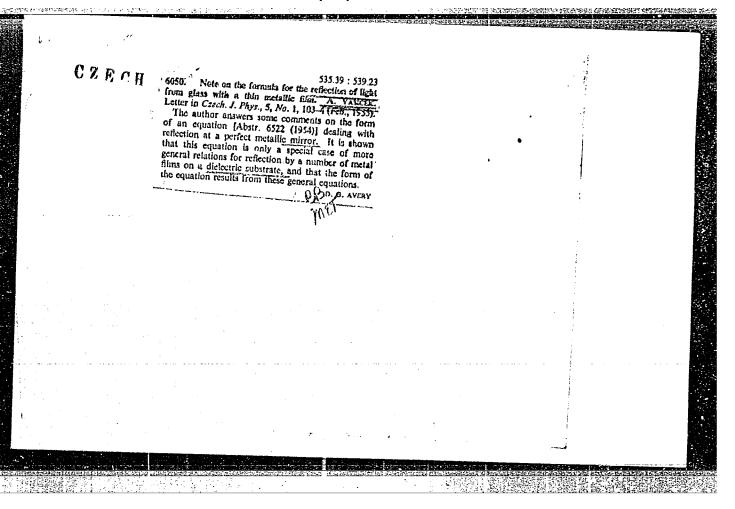




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VASICEK, A.
   "Two New Books on Thin Solid Lamina; A Review" P. 106
   ( CESKOSLOVENSKY CASOPIS PRO FYSIKU Vol. 4, No. 1, Feb.1954 - Praha, Czech. )
  SO: Monthly List of East European Accessions, (EEAL), IC., Vol. 4, No. 4,
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CZECH	The determination of the refractive index and the thickness of thin films of aluminum oxide on aluminum by the polarimetric method Autonin Visuas Manifest 148		
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	increase the reastance of the metados chem, agents. By the polarimetric method it in a and the thickness of a thin nonmetallic film can be detal not only on glass but also on a metadic mirror. The polarimetric method is suitable for the study of the tunness films on the study of the tunness films on the study of the study.	1	
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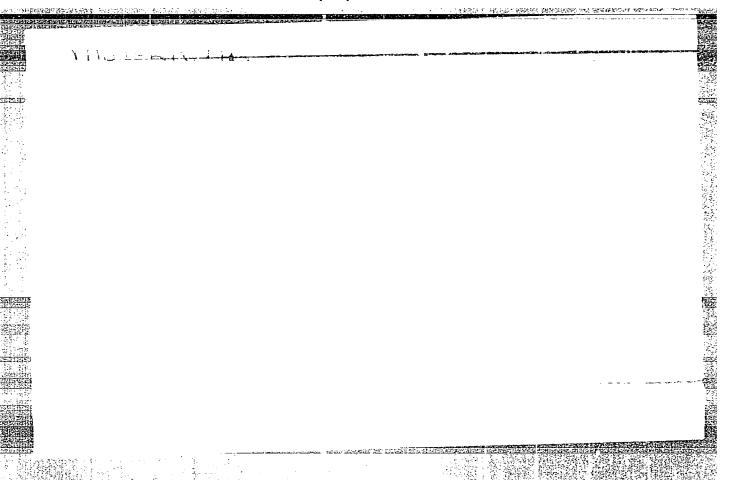
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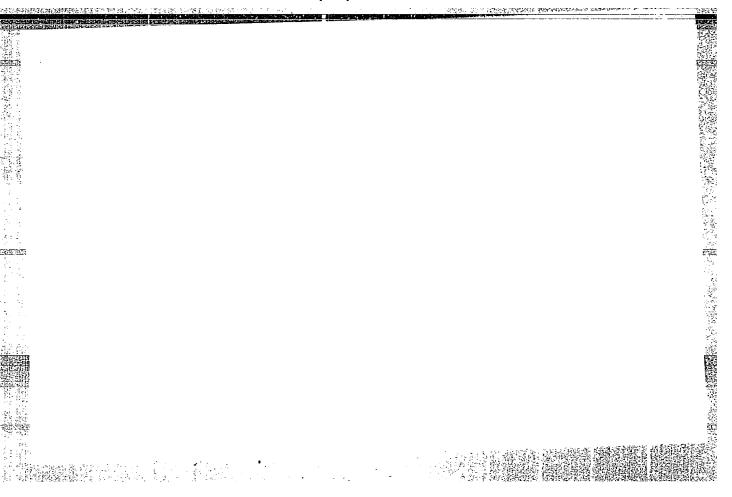


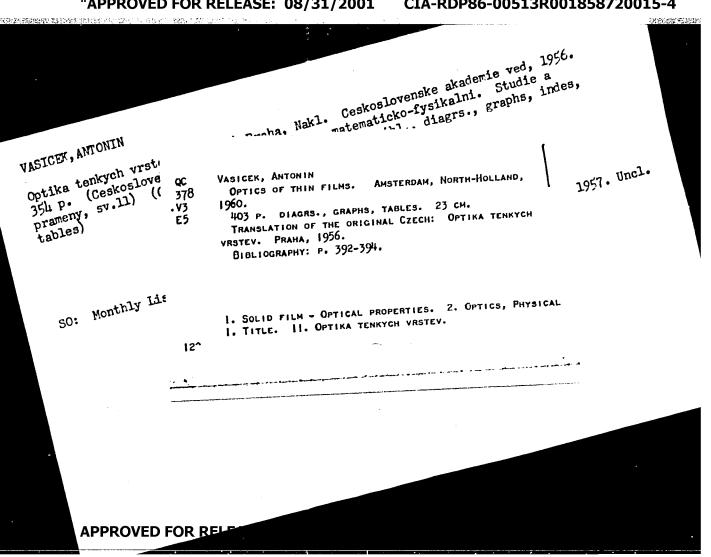
Vasicek, A.

Reflection and passage of light through thin transparent layers. P. 27 CESKOSLOVENSKY CASOPIS PRO FYSIKU. (Ceskoslovenska akademie ved. Ustav technicke fysiky) Praha. Vol. 6, no. 1, Jan. 1956

Source: EEAL - LC Vol. 5. No. 10 Oct. 1956







VASICEK, ANTONIN

CZECHOSLOVAKIA/Optics - Physical Optics

K-5

Abs Jour : Ref Zhur - Fizika, No 7, 1958, No 16618

Author : Vasicek intonin

Inst : Not Given

Title : Concerning the Derivation of Formulas for the Reflection and

Refraction of Light by Thin Layers

Orig Pub : Ceskosl. casop. fys., 1957, 7, No 3, 315-316

Abstract : A simple derivation of these formulas is given.

Card : 1/1

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VASICON, ANIERIA

CZECHOSLOVAKIA/Optics - Physical Optics

K-5

Abs Jour: Ref Zhur - Fizika, No 5, 1958, No 11755

Author : Vasicek Antonin

Inst: Masaryk University, Brno, Czechoslovakia

Title : On the Derivation of Equations for the Reflection and Re-

fraction of Light From a Thin Film.

Orig Pub: Chekhosl. fiz. zh., 1957, 7, No 3, 369-370

Abstract: A simplified derivation is proposed for the formulas for the reflection and refraction of light from a thin film. General expressions are obtained for the coefficient of reflection and the coefficient of transmission, suitable also for conducting absorbing films. In the case of transparent (non-absorbing) dielectric films, the formula assume the known form. The theory of reflection and refraction of light in thin films can be reduced to the theory of a two-port net-

work. The transparent films correspond to a symmetrical two-

port network.

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CZECHOSLOV/KIN/Optics - Physical Optics

K-5

Abs Jour : Ref Zhur - Fizika, No 4, 1959, No 6724

Author : Knittl Zdenek, Vasicek Antonin

Inst: Title: Critical Remarks on the Vasicek Review of the Theory of Re-

flection of Light From a Thin Metallic Layer

Orig Pub: Ceskosl. casop. fys., 1958, 8, No 1, 139-143

Abstract : See Referat Zhur Fizika, 1959, No 1, 1903

Card : 1/1

CZECHOSLOVAKIA/Optics - Physical Optics.

Abs Jour : Ref Zhur - Fizika, No 6, 1959, 14109

Author : Vasicek, Antonin

Inst:

Title: A Remark on the Reflection of Light from a Metal with

a Thin Interfering Non-Metallic Film.

Orig Pub : Chekhosl. fiz. zh., 1958, 8, No 3, 296-300

Abstract : See Abstract 14108.

Card 1/1

- CZECHOSLOVAKIA/Optics - Physical Optics.

Abs Jour : Ref Zhur - Fizika, No 6, 1959, 14108

Author : Vasicek, Antonin

Inst : Masaryk University, Brno, Czechoslovakia

Title : A Remark on the Reflection of Light from a Metal with

a Thin Interfering Non-Metallic Film.

Orig Pub : Ceskosl. casop. fys., 1958, 8, No 3, 299-302

Abstract : In the development of the theory of reflection of light

from a metal with thin non-metallic film, proposed by the author (Referat Zhur Fizika, 1956, No 4, 11610), results are cited on new calculations for the dependence of the azimuth  $\mathcal L$  and the phase difference  $\mathcal L$  on the thickness  $\mathbf d_1$  of a layer of  $\mathbf Al_2\mathbf 0_3$  on an aluminum backing and on the difference in the course of  $\mathbf x$ . The changes in the azimuth  $\mathcal L$  or in  $\Delta$  are directly proportional to

Card 1/2

VASICEK, Antonin, doktor fiziko-matematicheskikh nauk

On the theory of the reflection of light on a thin metal layer; a response to the article by P.Kard. Eesti tead akad tehn fuus 9 no.3:242-249 '60. (EEAI 10:3)

1. Universitet g. Brno Chekhoslovatskaya Respublika.
(Reflection (Optics)) (Light) (Metals)
(Thin films)

Z/055/65/013/001/006/013 E032/5414

AUTHOR:

TITLE:

Presnel and energy complex amplitudes in the option

of thin metal films

PERIODICAL: Czechoslovak Journal of Physics, Section B, v.13, mo.1

1963, 36-44

It is noted that the Airy summation formulae for the TEXT: reflection and transmission of light through a thin metal film may be written either in terms of the complex Francel amplitudes which follow from the boundary conditions, or in terms of the complex energy amplitudes which can be obtained from Stokes The two formulations are shown to principle of reversibility. lead to different results and it is established that the energy representation is the correct one because it expresses the complete energy balance at both boundaries of the film. particular, the theory of H. Murmann (2. Phys. 80 (1933), 161), who systematically employed complex Fresnel amplitudes, is shown to be incorrect. Murmann's formulae are in conflict with energy It is shown further that P.Drude's method (Ann. Phys. conditions. u. Chem. 43 (1891), 126) for the determination of the reflection Card 1/2

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and transmission of light through a thin film will only be correct for real amplitudes and thin dielectric films. cannot be used to determine the reflection and transmission of light through a thin metal film with the aid of the complex Fresnel formulae because the energy conditions are then not satisfied.

ASSOCIATION: Katedra fysiky povniých látek University J.H. Purkymě,

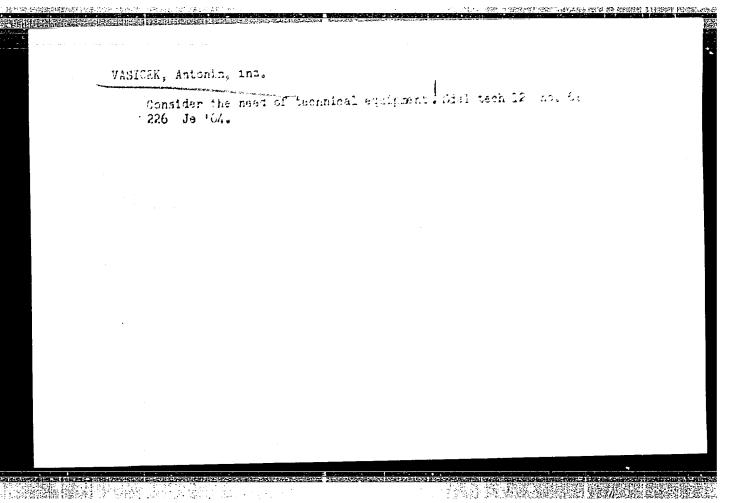
Brmo (Department of Physics of Solids, University

J.E.Purkyne, Brno) SUBMITTED: June 18, 1962

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858720015-4"

VASICEK, Antonin, inz.; LINHARD, Milan, inz.

Device for automatic control of the heat conditions of electric furnaces. Automatizace 7 no. 7:183-185 Jl '64.



VASICKK, Antonin, inz.; LINHARD, Milan, inz.

Colors for marking parts. Sdel tech 12 no.2:54 F'64

Soldering furnace. Ibid.:69

Connecting terminals on aluminum shielding foil. Ibid.:77

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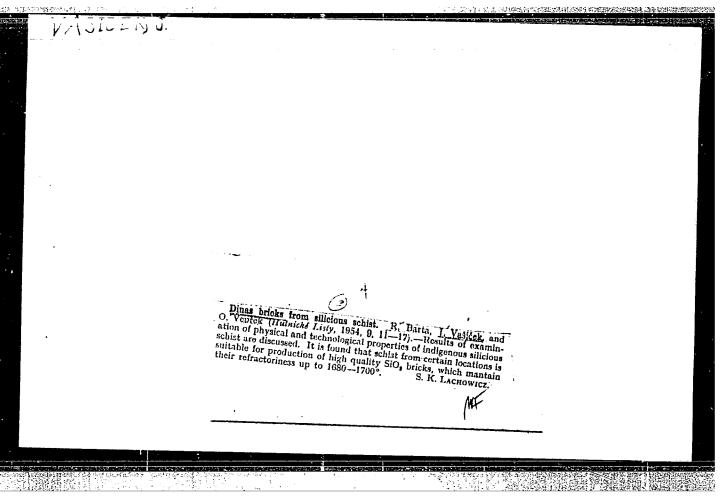
BILY, Jaroslav; VASICEK, Boh.

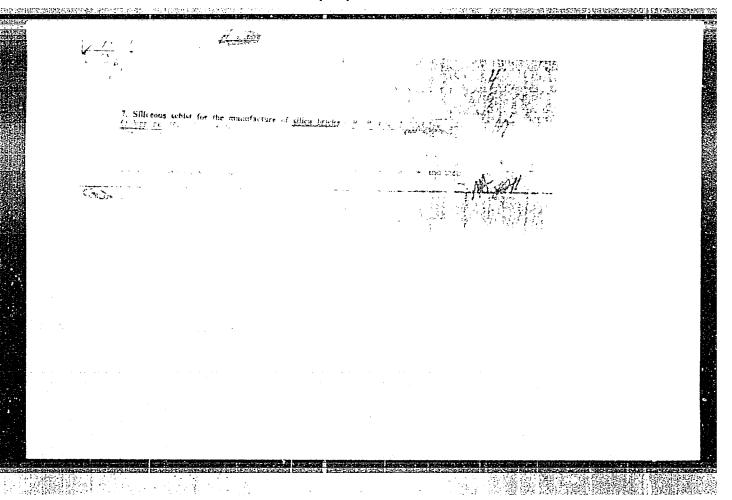
Experience in mechanization at the Prackovice railway track repair station. Zel dop tech ll no.3:82 '63.

Vasicek, J.

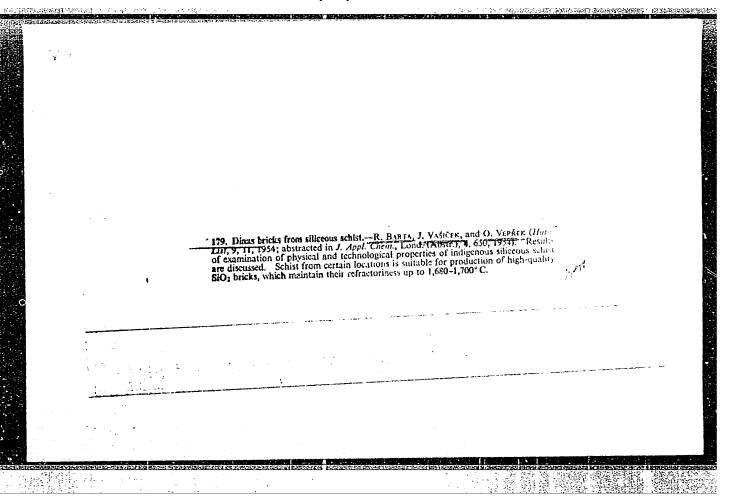
Utilization of slag in the building industry. p. 310. NOVA TECHNIKA. (Rada vedeckych technickych spolecnosti pri Ceskoslovenske akademii ved) Praha. Vol. 4, no. 7, July 1954.

Source: EEAL IC Vol. 5, No. 10 Oct. 1956





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VASICEK, J.

VASICEK, J. The brick industry in the United States. p. 339

Vol. 34, no. 9, Sept. 1956 STAVIVO TECHNOLOGY Praha, Czechoslovakia

So: East European Accession Vol. 6, no. 2, 1957

VASICEK, J.

Structural properties of brickwork of lightened honeycomb bricks made of overlaying clay from the coal fields of the North-Bohemian lignite mining district. p. 227.

(Stavivo. Vol. 35, no. 6, June 1957. Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 10, October 1957. Uncl.

VASICER, J.

.CZECHOSLOVAKIA / Chemical Technology . - Ceramics, Glass, - : H-13b Ceramics. Binders! Concretes: Chemical Products

and Their Application.

Abs Jour: Referat. Zhurnal Khimiya, No Li, 1958, 11976.

Author : J. Vasicek.

Inst : Not given

Title : Structural-Technical Properties of Masonry of Light-Weight

Multiply Perforated Bricks Manufactured of Overlying Clays

of North Czechian Brown Coal Basin.

Orig Pub: Stavivo, 1957, 35, No 6, 227 - 230.

Abstract : The results of the study of clays from the North Czechian

coal basin are presented. The study was carried out with a view to use these clays for manufacturing of full-bodied light-weight bricks, hollow blocks and tiles for paneling.

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**APPROVED FOR RELEASE: 08/31/2001** CIA-RDP86-00513R001858720015-4" VASICEK, M.

"Graded Bedding and Some Sedimentary Mineral Deposits", P. 417, (SBORNIK. ODDIL GEOLOGICKY, Vol. 20, 1953, Praha, Czech.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vcl. 4, No. 3, Mar 1955, Uncl.

VASIOFK, N.

VASTORK, M. Report on the journey of exploration aboard the ship <u>Republika</u>. (To be contd.) p. 157.

Vol. 31, No. 4, 1956. VESTNIK GEOGRAPHY & GEOLOGY Praha, Czechsolovakia

So: East European Accession, Vol. 6, No. 2, Feb. 1957

VASICEK, M.

VASICEK, M. Report on the journey of exploration aboard the ship Republika. (Conclusion) p. 197.

Vol. 31, No. 5, 1956. VESTWIK. CECGRAFHY& GEOLOGY Prahs, Czechoslovakia

So: East European Accession, vol. 6, No. 3, March 1957

YASICEK, E.

VASICEK, N. Coral bioherms at the southern coast of hairon and their importance for recognizing the conditions of the origin and development of reefs. p. h3.

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So: East European Accession, Fol. 6, No. 5, Lay 1957

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VACISEE, M.

"Enrichment and impoverishment of farmes and florus in the light of the coolegic development of the Pacific."

SHORNIK, Praha, Czechoslovakia, Vol. 64, No. 2, 1959.

Eanthly list of MAST MUROPEAN ACCESSIONS INDEX (SMAI), Library of Congress, Vol. 9, No. 8, August, 1959.

Unclassified.

VASICEK, M.; RUZICKA, B.

Fossil thecamoebina in the coal-bearing sediments in the basin of Upper Silesia. p. 49. (CASOPIS; ODDIL PRIRODOVEDNY, Vol. 126, No. 1, 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) IC, Vol. 6, No. 12, Dec 1957. Uncl.

VASICEK, M.

The broken structure of the loose sediments near Raksice. p. 132.

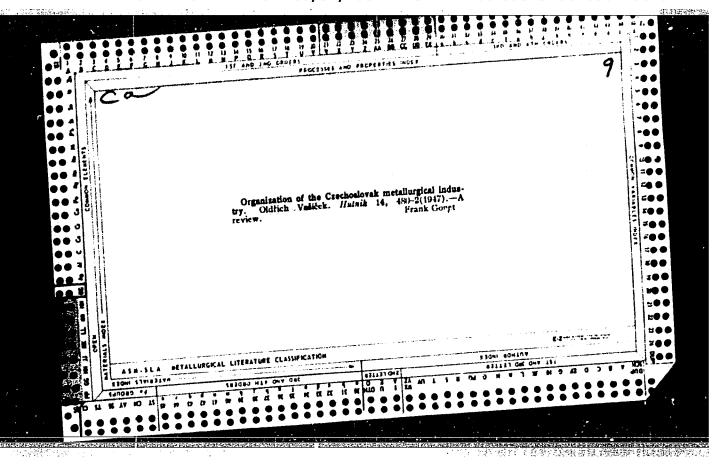
CASOPIS; ODDIL PRIRODOVEDNY. Praha, Czechoslovakia. Vel. 127, no. 2, 1958.

Monthly list of East European Accessions (EEAI) LC, Vol. 9, no. 1, January 1960. Uncl.

VASICEK, Mileslav (Praga)

Tasks of paleentelegy in the study of sedimentary recks and sedimentary mineral deposits. Biul.MOIP. Otd.goel. 30 no.6:19-30 H-D 155.(MLRA 9:4)

(Sedimentation and deposition)



VASICEK, O.

Indexes of repairs in metallurgic plants. p. 205. (HUTNIK, Vol. 7, No. 6, June 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

AUTHOR: Vasicek, Oldrich (Doctor); Slavik, Vladimir (Engineer)  ORG: Wasicek Tevuh, Praguo; Slavik NHKG, Ostrava  TITLE: Experience in repairs of panel type Martin's furnaces  SOURCE: Mutnik, no. 12, 1965, 529-531  TOPIC TAGS: metallurgic furnace, metallurgic industry  ABSTRACT: The panel type furnaces show a shorter down time than the furnaces of the classical type; the cost of lining them is also lower than in the usual type. The article covers experience with 8 furnaces that have been in production since 1961.  Orig. art. has: 3 tables. JFRS: 34,512  SUB CODE: 13, 05 / SUBM DATE: none / ORIG REF: 006 / OTH REF: 001	L 34940-66 EMP(t)/ETI IJP(c) JD  ACC NRAP6026602 SOUNCE CODE: CZ/0057/65/0	000/012/0529/0531
TITLE: Experience in repairs of panel type Martin's furnaces  SOURCE: Hutnik, no. 12, 1965, 529-531  TOPIC TAGS: metallurgic furnace, metallurgic industry  ABSTRACT: The panel type furnaces show a shorter down time than the furnaces of the classical type; the cost of lining them is also lower than in the usual type. The article covers experience with 8 furnaces that have been in production since 1961.  Orig. art. has: 3 tables. [JPRS: 34,512]  SUB CODE: 13, 05 / SUBM DATE: none / ORIG REF: 006 / OTH REF: 001	AUTHOR: Vasicek, Oldrich (Doctor); Slavik, Vladimir (Engineer)	الحد
SOURCE: Hutnik, no. 12, 1965, 529-531  TOPIC TAGS: metallurgic furnace, metallurgic industry  ABSTRACT: The panel type furnaces show a shorter down time than the furnaces of the classical type; the cost of lining them is also lower than in the usual type. The article covers experience with 8 furnaces that have been in production since 1961.  Orig. art. has: 3 tables.	ORG: [Vasicek] TEVUH, Prague; [Slavik] NHKG, Ostrava	R
ABSTRACT: The panel type furnaces show a shorter down time than the furnaces of the classical type; the cost of lining them is also lower than in the usual type. The article covers experience with 8 furnaces that have been in production since 1961. Orig. art. has: 3 tables.   JPRS: 34,519  SUB CODE: 13, 05 / SUBM DATE: none / ORIG REF: 006 / OTH REF: 001	TITLE: Experience in repairs of panel type Martin's furnaces	
ABSTRACT: The panel type furnaces show a shorter down time than the furnaces of the classical type; the cost of lining them is also lower than in the usual type. The article covers experience with 8 furnaces that have been in production since 1961. Orig. art. has: 3 tables. [JPRS: 34,512]  SUB CODE: 13, 05 / SUBM DATE: none / ORIG REF: 006 / OTH REF: 001	SOURCE: Hutnik, no. 12, 1965, 529-531	
classical type; the cost of lining them is also lower than in the usual type. The article covers experience with 8 furnaces that have been in production since 1961.  Orig. art. has: 3 tables. [JPRS: 34,519]  SUB CODE: 13, 05 / SUBM DATE: none / ORIG REF: 006 / OTH REF: 001  Cord 1/1	TOPIC TAGS: metallurgic furnace, metallurgic industry	
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	SUB CODE: 13, 05 / SUBM DATE: none / ORIG REF: 006 / OTH REF	2: 001
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VASICEK, Oldrich, dr.

Efficiency of basic and Dinas linings of open-hearth furnaces. Hut listy 16 no.6:387-391 Je '61.

1. Technickoekonomicky vyzkumny ustav hutniho prumyslu a rudnych dolu.

VASICEK, Oldrich

A special quene discipline. Aplikace mat 10 no.1:59-71 165.

1. Institute of Information Theory and Automation of the Czechoslovak Academy of Sciences, Prague 2, Vysehradska 49. Submitted March 4, 1964.

T/EWP(1)31832-66 SOURCE CODE: CZ/0026/65/010/005/0423/0427 ACC NR: AP6021180 AUTHOR: Vasicek, Oldrich (Prague) ORG: Institute of Information Theory and Automation, CSAV, Prague (Ustav teorie informace a automatizace CSAV) TITIE: Note on a queueing discipline SOURCE: Aplikace matematiky, v. 10, no. 5, 1965, 423-427 TOPIC TAGS: queueing theory, probability ABSTRACT: The paper presents a queueing discipline in the systems M/M/c such that the probability of a customer being served depends on the length of the queue and the order of his arrival. It is proved that, in such a system, the variance of waiting time attains its maximum or minimum value if and only if the customers are served according to the order of their arrivals or the inverse order respectively. Orig. art. has: 7 formulas. [JPRS] SUB CODE: 12 / SUBM DATE: 12May64

VASICEN, R. BADIA J.

Journal of the Iron and Steel Institute July 1954 Refractory Materials Silicous Schist for the Manufacture of Silica Bricks. It.

10, 11-17). (In Creck). Tests were extract out on labourtory specimens of Dinas made from silicious schist found in
Czechoslovakia. It is shown that the bricks maintain their
strongth up to about 1880, or even 1700° C., so that they are
not appreciably inferior in that respect to superduty silica
bricks. However, their softening range is narrow, and their
use is only justified with good furnace roof temperature
control.—P. F.

#### CZECHOSLOVAKIA

# VASICEK, R.; KUNOVSKY, L.; NOSEK, V.

1. Standardization and Development Research Institute for the Construction of Health Centers (Studijni typisacni a vyvojovy ustav pro vystavbu zdravotnickych zarizeni), Prague (for Vasicek?); 2. Pharmacy Development Center (Rozvojove lekarnicke stredisko), Prague (for Nosek?)

Bratislava, Farmaceuticky obzor, No 2 [Feb] 1967, pp 65-76

"Project design of storehouses for supplies of complex health preparations and materials."

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# RUZICKOVA, D; VASICEK, R.

1. Developmental Drug Center (Rozvojove lekarnicke stredisko), Prague; 2. Study, TKM Typification and Evolution Institute of Health Staff and its Organizations (Studjini, typizacni a vyvojovy ustav pro zdravotnicke stavby a jejich zarizeni), Prague

Bratislava, Farmaceuticky obzor, No 7, 1963, pp 298-306

"Typification of Stores for Combustible Materials."

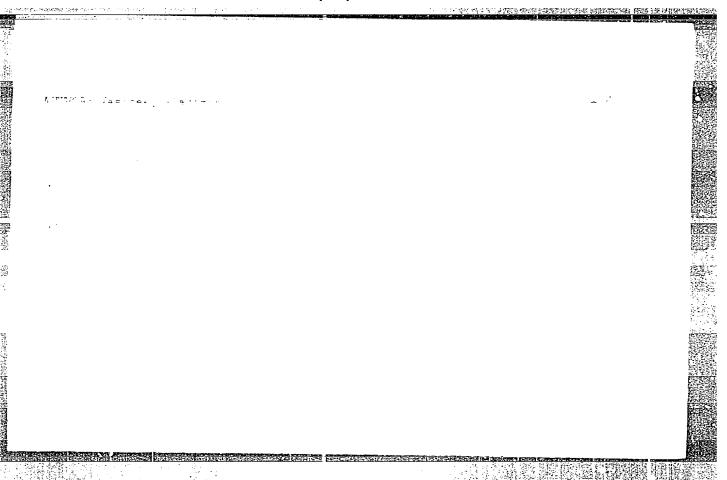
#### VASICEK, Zdenek

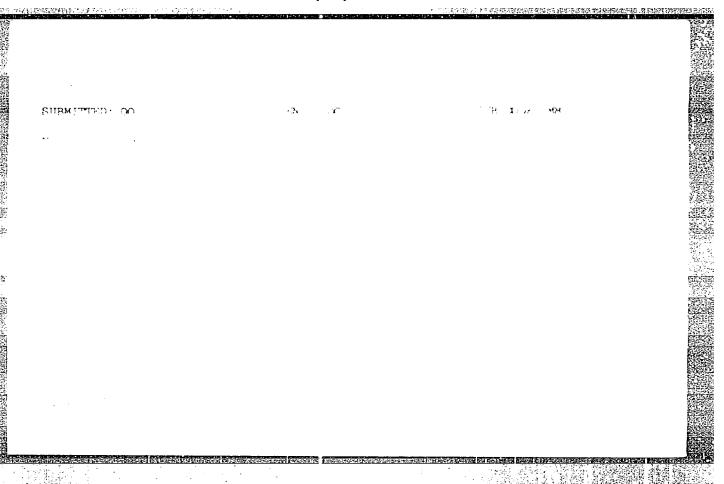
Report on the micropaleontological examination of the NF-4/1-Tarkev borehole in the Karvina cention of the Ostrava-Karvina coalfield. Sbor VSB Ostrava 10 no 1/2:167-175

Peport on the discovery of conodonts in the Poruba beds of the Ostrava-Karvina coalfield. Ibid.:197-198

1. Submitted December 20, 1963.

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VASICEK, Z.

Kvapilik, Z. Installing AGY conductors using new installation materials. p. 3.9. ELEKTROTECHNIK, Prague, Vol. 10, no. 12, Dec. 1955.

SO: Monthly List of East European Accessions, (EEAL), IC, Vol. 5, No. 6 June 1956, Uncl.

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Assembly of glass pipes in the installation of electric systems. p.265. (Pozemni Stavby, Vol. 5, No. 5, May 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 9, Sept. 1957. Uncl.

# STAMBERG, Jiri; VASICEK, Zdenek

Effect of the structure of ion exchange resins on their properties to decolorize sugar solutions. Chem prum 12 no.4:213-219 Ap 162.

1. Vyzkumny ustav syntetickych pryskyric a laku, Pardubice.

Desclorizing ion exchangers. Pt.19: Comparison of the new types of decolorizing ion exchangers. Listy cukrovar 79 no.2:33-39 % 163.

RYBIN, A.A.; SHTIGLITS, S.L.; VASICH, I.N., redaktor; SOSNIN, A.P., tekhnicheskiy redaktor.

[Production of articles from soft stone] Proizvodstvo izdelii iz miagkikh kamnei. Moskva, Gos.izd-vo mestnoi promyshl, RSFSR, 1956. 111 p. (MLRA 10:6)

(Stone industry)

BELOV, Ye.N.; ZAKHAROV, N.N., redaktor; Yasich, I.N., redaktor izdatel'stva;

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[Principles for setting norms in technology; manual for setting technical norms in local industries] Cenory tekhnicheskogo normirovaniia; rukovodstvo po tekhnicheskomu normirovaniiu v mestnoi promyshlennosti. Izd. 4-ce, perer. Pod red. N.N.Zakharova.

Moskva, Gos. ixd-vo mestnoi promyshl. RSFSR, 1956. 158 p.

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CHERNYAVSKIY, Yevgeniy Vladimirovich; SMIRHOV, Ye.V., otvetstvennyy redaktor;
VASICH, I.N., redaktor izdatel'stva; SCSNIN, A.P., tekhnicheskiy
redaktor

LManufacture of cement and sandstone tiles by local industries of Voronesh Province Proizvodstvo tsementno-peschanoi cherepitsy na predpriiatiiakh mestnoi promyshlennosti Voroneshskoi oblasti.

Moskva, Gos.isd-vo mestnoi promyshl. RSFSR, 1957. 62 p. (MLRA 10:7)

(Voronesh Province--Tiles)

P

FADIEFE, K.

YUGOSLAVIA / General and Special Zoology. Insects.

Abs Jour: Ref Zhur-Biol., No 3, 1958, 11686

Author : Vasich K. Inst : Not given

: Towards the Knowledge of the Development Cycle of Title

Some Cutworm Moth Species of the Genera Triphaena

O. and Spaelotis Bsd.

Orig Pub: Glasnik Shumarskog fak. Un-t Belgradu, 1954, 8, 31-

39

Abstract: The distribution, life conditions and development of cutworm moths T. pronuba, T. fimbriata and S.

ravida are described.

Card 1/1

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A Scintillation Counter for the Recording of X-rays

Figure 1 shows the output voltage as a function of currents flowing through the resistors  $R_1 = R_2 = 12 \text{ k}\Omega$ . As can be seen from these curves, a reduction in the current I by a factor of 2 leads to a reduction in the output voltage by about 10% (the working point is displaced from  $\,M\,$  to  $\,N\,$  ). The simultaneous reduction and  $R_2$  by a factor of 2 in the currents through R1 leads to a reduction in the output voltage also by a factor of 2 (the working point is displaced from M to P). Thus the appearance of a pulse in only one of the photomultipliers leads to a small anticoincidence pulse at the output, while the appearance of simultaneous pulses at the two anodes leads to a large output pulse equal in amplitude to the smaller of the two input pulses. In order to ensure low resolving time,  $R_1$ ,  $R_2$  and  $R_3$ must be shunted by parasitic capacitances as small as possible. The diodes  $\triangle_1$  and  $\triangle_2$  are attached to the

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point A by short pieces of cable, having a natural

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A Scintillation Counter for the Recording of X-rays

forms the input resistor capacitance of 27 pF/m. of a cathode follower which decouples this resistor from the capacitance of the connecting cable. The resolving time of this system, determined with the aid of a delay line, was found to be 10 sec. Figure 2 shows the integral noise spectrum for the two photomultipliers taken separately (Curves a and 6) and the spectrum obtained with the coincidence circuit (Curve B). Figure 3 shows the block diagram of the instrument. pulses from the coincidence circuit are fed into an amplifier in series with a discriminator and the output of the discriminator is recorded either by a scaling unit or by a ratemeter working in conjunction with a pen recorder. The basic circuit of the instrument as a whole is shown in Figure 4. Figure 5 shows the highvoltage rectifier employed. Figure 6 shows the amplifier and the single-channel kicksorter. Figure 7 indicates the method of mounting of the sodium iodide crystals between the photomultipliers. Typical spectra obtained are shown in Figures 8-10. The efficiency of the counter

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A Scintillation Counter for the Recording of X-rays

was found to be of the order of 90% in a wide wavelength region (between the chromium and molybdenum radiations). The system can thus be used successfully at all wavelengths normally employed in X-ray analysis.

There are 10 figures, 1 table and 16 references, 8 of which are Soviet and 8 English.

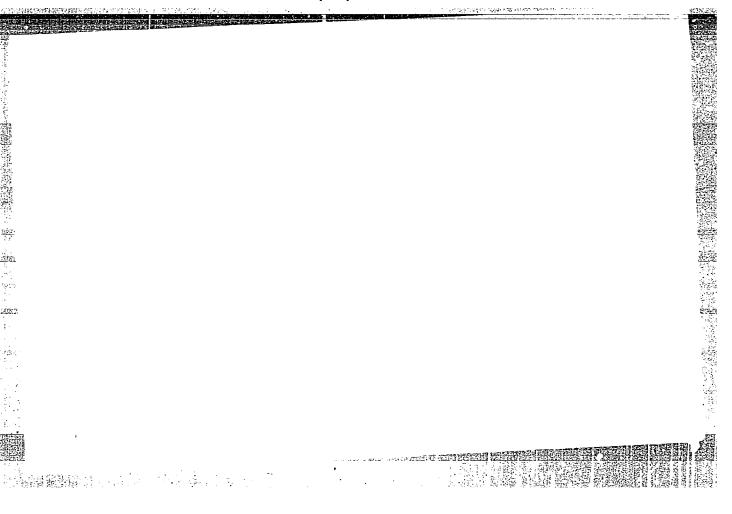
ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy institut

chernoy metallurgii (Central Scientific-Research Institute

for Ferrous Metallurgy)

SUBMITTED: March 9, 1959

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VASICHEV, B.N.

Use of X-ray spectral analysis in electron microscopy. Zav. lab. 31 no. 12:1458-1461 '65 (MIRA 19:1)

1. TSentral 'nyy nauchmo-issledovatel 'skiy institut chernoy metallurgii imemi Bardina.

#### "APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001858720015-4

L 36552-66 EWT(1)/EWT(m)/T/EWP(t)/ETI IJP(c) JD/JG

ACC NR: AP6015758 (A.V) SOURCE CODE: UR/0048/66/030/005/0758/0760

AUTHOR: Vasichev, B. N.; Murashko, G. M.; Utevskiy, L. M.

ORG: none

4

TITLE: Solution of some experimental problems with the aid of the EAMA-2 electron microscope-microanalyzer /Report, Fifth All-Union Conference on Electron Microscopy held in Sumy 6-8 July 1965/

SOUNCE: AN SSSR. Izvestiya. Seriya fizichoskaya, v. 30, no. 5, 1966, 758-760

TOPIC TAGS: x ray analysis, electron microscope

ABSTRACT: About half of the present paper is devoted to a brief description of the EMMA-2 electron microscope microanalyzer which was fabricated from a Tesla desk model electron microscope. A condenser system was provided which produced an electron beam probe with a diameter less than 1 µ on the object. The second condensing lens of this system had a very short working distance, which made it possible to increase the angle of departure of the x rays from the object to 28°. The instrument was equipped with two small x-ray spectrometers employing LiF or mica crystals. The projection system of the microscope was left unaltered; this made it possible directly to observe the position, shape, and size of the probe when working with a thin object, and to bring the probe accurately into coincidence with the desired part of the object. The power

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ACC NR: AP6015758

supply of the microscope was so altered as to make it possible to vary the accelerating potential in steps from 25 to 70 kV. In the remainder of thepaper three applications of the instrument are discussed briefly. In one experiment a thin film of an iron-molybdenum alloy was examined. The alloy had been heated for 30 minutes in an argon atmosphere. The film was found to contain inclusions with enhanced molybdenum content. In a second experiment, x-ray analysis of a heat treated austenitic chromenickel steel revealed the presence near the carbide inclusions of zones enriched in nickel and impoverished in chromium. Extraction replicas provided the possibility of determining the shape and distribution of the inclusions, and the chemical composition of the particles in the replica could be determined by x-ray microanalysis. In the third experiment the small particles resulting from explosion in vacuum of a nichrome wire were examined. The particles were found all to have the same composition. Orig. art. has: 4 figures.

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SUEM DATE: 00/

ORIG REF: 003/

OTH REF: 003

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VASICHEIN, T.

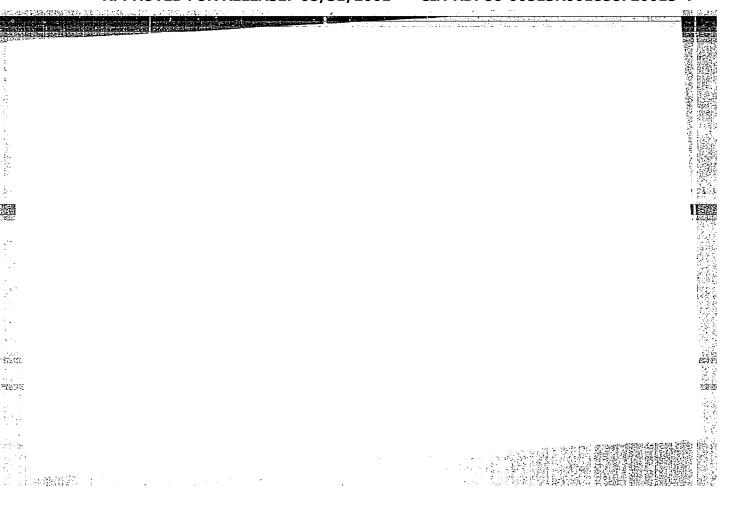
LETTER TO THE EDITOR: CTATDARD DESIGNS ARE REEDED FORWATER POWER PLANTS.

( By Engineer T. Vasichkin. Pravda, Jan. 24, p. 3, 225 words. Charary:)

Water power plants with a capacity of 300 to 350 kilowatta can be set up along the river Par, Ryazan Province, but when the collective farmers of Mozharsk District decided to build the first one, the Village Power Trust did everything possible to reduce the planned capacity to 100 kilowatts. A capacity of 200 kilowatts was finally agreed upon.

The delay stems from the fact that the Village Power Trust as yet has not found time to work out standard designs for a plant with a capacity above 100 kilowatts. It has not carried out its pledge to prepare a manual on the construction of inexpensive and durable dams from local materials.

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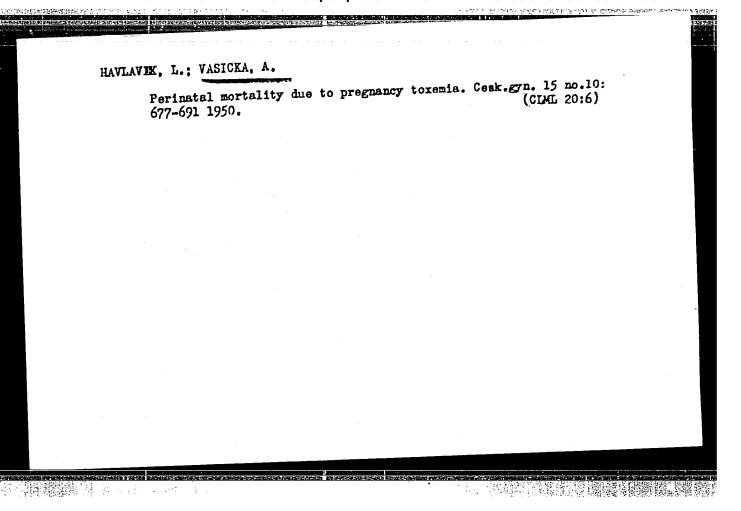


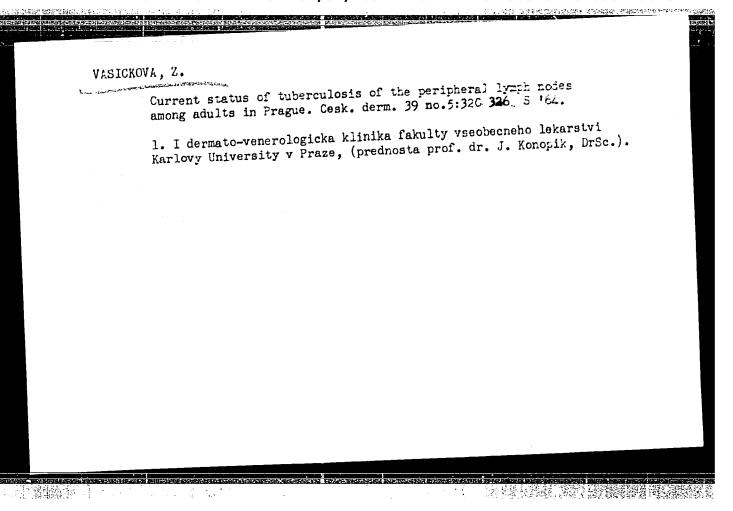
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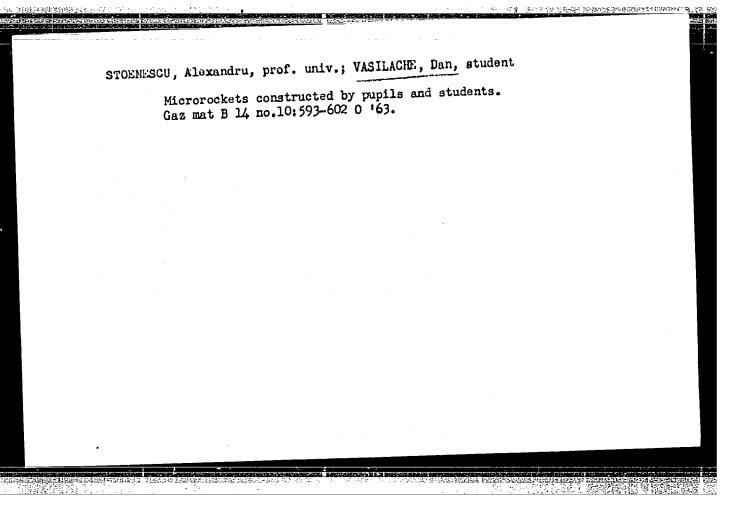
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BULGAKOV, V.S., kand. tekhn. nauk; MATKOV, N.G., kand. tekhn. nauk; BELIKOV, V.A., inzh.; YASIL!, A.P., kand. tekhn. nauk, red.; KLIMOVA, G.D., red. izd-va; SHEVCHENKO, T.N., tekhn. red.

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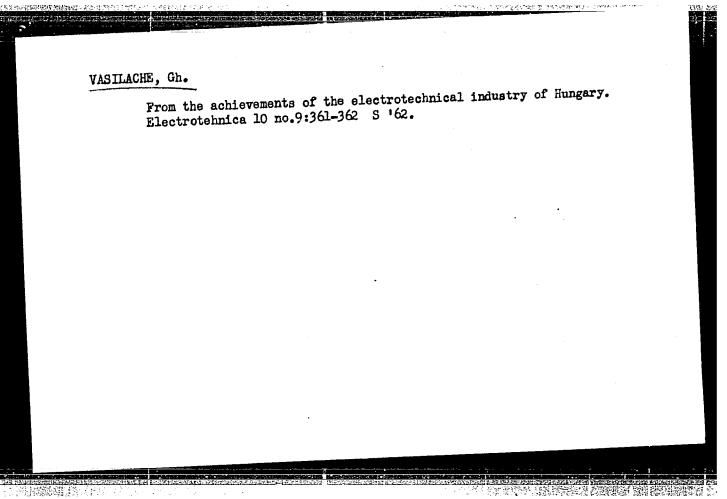
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Ref Zhur - Khim., No 14, 1958, No 47795 Abs Jour

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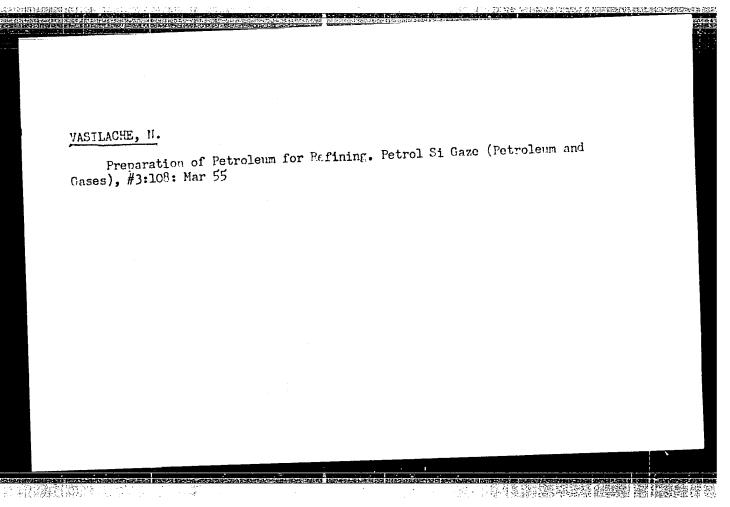
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the preparation of medicaments (fillers for pills and tablets) were studied. The introduction of local bentonites into the phermaceutical practice standardizes the methods of work, improves the quality of many forms of medicements and replaces some imported preparations with domestic one.

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Abs Jour: Ref Zhur-Khimiya, 1959, No 5, 12154.

Author : Dumici, I.; Vasilache, N. Inst : Not given.

Title : Corrosion of Underground and Surface Equipment.

Orig Pub: Petrol si gaze, 1958, 9, No 6, 259-264.

Abstract: Instances of corrosion of oil-refining industry

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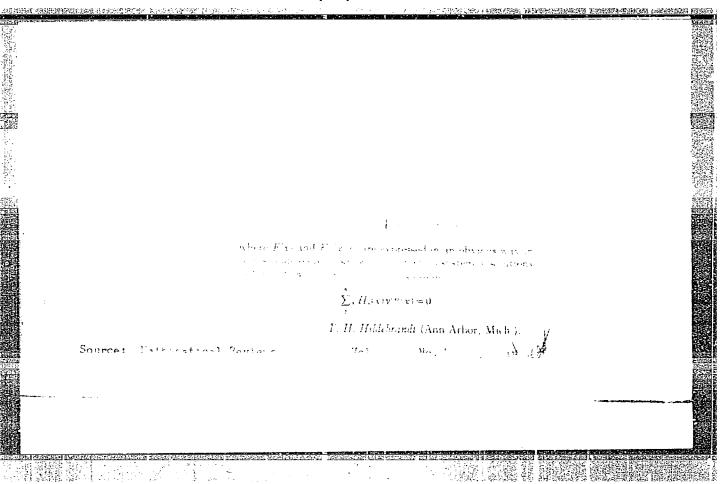
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